

Chapter 8A From Revision 1 to Revision 2 Change List

Item	Location	Description of Change
1.	S8A	Title change
2.	S8A, 1 st para	Technical clarification – the new Level 2 PRA model is an entire integrated, single-top model, not just a set of containment event trees
3.	S8A, 2 nd para	Technical clarification relating to the paradigm shift in the Level 2 PRA
4.	S8A.1, 1 st and 2 nd para	Updated methodology for the binning and partitioning of Level 1 sequences
5.	S8A.1, Class I bullet	The integrated Level 2 model implicitly includes all initiator impact, so separate CETs for the LOPP scenarios is no longer necessary New sub-class definitions for Level 1, class I accident sequences
6.	S8A.1, Class II bullet	There ARE class II accident sequences above truncation from the Level 1 analysis in revision 2 – this binning scheme is still a work in progress though. Technical clarification explaining treatment of class II sequences from the Level 1 analysis
7.	S8A.1, Class III bullet	Revised binning based on integrated Level 2 model
8.	S8A.1, 4 th bullet	New sub-classes for the Level 1, class IV accident sequences
9.	S8A.2, 1 st – 4 th paras	Explanation of the integrated Level 2 PRA, and how it is an extension of the Level 1 PRA. Old explanation of how the “split fraction” CETs were calculated and quantified is no longer applicable
10	S8A.2.2	
11	SA8.2.3	Updated technical discussion – more detailed design of containment penetrations in DCD R3 indicate that some lines do need to be isolated; fault tree was developed as a result
12	S8A.2.3, 2 nd para	In response to RAI 19.2-74, a sensitivity will be done in NEDO-33201 Section 11 to consider this effect
13	S8A.2.4	Technical clarification – only high pressure (class III) sequences have the potential for DCH

14	S8A.2.5	Technical clarification – now that water level-specific event trees are used, they are specified
15	S8A.2.6	Deleted section entitled “Water Level Prior to RPV Failure (LD_LVL).” No longer a node because of the water level binning.
16	S8A.2.8	The vapor suppression node is now modeled with a fault tree per NEDO-33201 Section 4.18.
17	S8A.2.9	In response to RAI 19.2-73 – the vent operation is now modeled with a fault tree to justify the reliability number and initiator impact is included – HRA event is conservative but does not impact results
18	S8A.2.10	Per R2 model update, containment heat removal is now modeled explicitly with fault trees as opposed to calculated split fractions
19	S8A.2.11	Per R2 model update, containment heat removal is now modeled explicitly with fault trees as opposed to calculated split fractions
20	S8A.3	Completely new quantification methodology as a result of the entirely different Level 2 PRA
21	T8A-1	New sequences as a result of the revised Level 1 PRA – updated frequencies, Level 2 bins, and LDW water levels
22	T8A-2	New table of Level 2 sequence-by-sequence results
23	T8A-3	Table updated to include new Level 2 event trees and R2 results
24	F8A-1 through F8A-7	New CET, combines the old CPET and CSET
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